

**North Park Lake
Section 206
Aquatic Ecosystem Restoration
Allegheny County, Pennsylvania**

**Preferred Plan
MCACES Cost Estimate Summary**

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Construction Cost Alternative 04 (100% Qty)	Estimated By:	CRC
LOCATION:	Allegheny County, PA	Checked By:	RPW
COST LEVEL:	April 2006	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCost 2nd Rev Aug 06
Alternative 4: Drain the Lake (Mechanical Removal)		Date:	8/24/2006

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$55,672.00	\$55,672.00	20%	\$66,806.40
0002	Excavation / Trucking	348300	CY	\$10.31	\$3,590,973.00	20%	\$4,309,167.60
0003	Spreading	348300	CY	\$2.30	\$801,090.00	20%	\$961,308.00
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$230,500.00	\$230,500.00	20%	\$276,600.00
	County Site	1	JB	\$89,900.00	\$89,900.00	20%	\$107,880.00
	Wildwood	1	JB	\$342,300.00	\$342,300.00	20%	\$410,760.00
0005	Access Ramps						
	Mars	1	JB	\$25,900.00	\$25,900.00	20%	\$31,080.00
	Goldstar	1	JB	\$72,100.00	\$72,100.00	20%	\$86,520.00
	Pierce Mill	1	JB	\$79,500.00	\$79,500.00	20%	\$95,400.00
	Rose Barn	1	JB	\$26,400.00	\$26,400.00	20%	\$31,680.00
	The Point	1	JB	\$32,800.00	\$32,800.00	20%	\$39,360.00
0006	Stream Diversion	1	JB	\$828,500.00	\$828,500.00	19%	\$988,200.00
0007	Sediment Control	1	LS	\$27,172.00	\$27,172.00	20%	\$32,606.40
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$11.00	\$132,000.00	20%	\$158,400.00
0008b	Rock	3700	CY	\$50.00	\$185,000.00	20%	\$222,000.00
0009	Environmental Improvements						
	Aquatic Improvements	1	LS	\$180,000.00	\$180,000.00	20%	\$216,000.00
	Osprey Nests	2	EA	\$2,500.00	\$5,000.00	20%	\$6,000.00
	Coir Logs	5600	LF	\$53.00	\$296,800.00	20%	\$356,160.00
0010	Plantings						
	Shoreline	1	JB	\$48,237.00	\$48,237.00	20%	\$57,884.40
	Wildwood	1	JB	\$77,676.00	\$77,676.00	20%	\$93,211.20
	Bull Pen	1	JB	\$7,900.00	\$7,900.00	20%	\$9,480.00
	County Site	1	JB	\$5,300.00	\$5,300.00	20%	\$6,360.00
0011	Traffic Control	1	JB	\$165,100.00	\$165,100.00	20%	\$198,100.00

Total Cost w/ Contingency \$8,760,964.00

Rounded Total Estimated Cost for Site Preparation w/ contingency		\$8,761,000.00
	405000	\$/cy \$21.63

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Construction Cost Alternative 04 (75% Qty)	Estimated By:	CRC
LOCATION:	Allegheny County, PA	Checked By:	RPW
COST LEVEL:	April 2006	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCost 2nd Rev Aug 06
Alternative 4: Drain the Lake (Mechanical Removal)		Date:	8/24/2006

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$53,585.00	\$53,585.00	20%	\$64,302.00
0002	Excavation / Trucking	261225	CY	\$9.22	\$2,408,494.50	20%	\$2,890,193.40
0003	Spreading	261225	CY	\$2.30	\$600,817.50	20%	\$720,981.00
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$230,500.00	\$230,500.00	20%	\$276,600.00
	County Site	1	JB	\$89,900.00	\$89,900.00	20%	\$107,880.00
	Wildwood	1	JB	\$342,300.00	\$342,300.00	20%	\$410,760.00
0005	Access Ramps						
	Mars	1	JB	\$25,900.00	\$25,900.00	20%	\$31,080.00
	Goldstar	1	JB	\$72,100.00	\$72,100.00	20%	\$86,520.00
	Pierce Mill	1	JB	\$79,500.00	\$79,500.00	20%	\$95,400.00
	Rose Barn	1	JB	\$26,400.00	\$26,400.00	20%	\$31,680.00
	The Point	1	JB	\$32,800.00	\$32,800.00	20%	\$39,360.00
0006	Stream Diversion	1	JB	\$660,500.00	\$660,500.00	19%	\$787,800.00
0007	Sediment Control	1	LS	\$20,925.00	\$20,925.00	20%	\$25,110.00
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$11.00	\$132,000.00	20%	\$158,400.00
0008b	Rock	3700	CY	\$48.00	\$177,600.00	20%	\$213,120.00
0009	Environmental Improvements						
	Aquatic Improvements	1	LS	\$180,000.00	\$180,000.00	20%	\$216,000.00
	Osprey Nests	2	EA	\$2,500.00	\$5,000.00	20%	\$6,000.00
	Coir Logs	5600	LF	\$53.00	\$296,800.00	20%	\$356,160.00
0010	Plantings						
	Shoreline	1	JB	\$48,237.00	\$48,237.00	20%	\$57,884.40
	Wildwood	1	JB	\$77,676.00	\$77,676.00	20%	\$93,211.20
	Bull Pen	1	JB	\$7,900.00	\$7,900.00	20%	\$9,480.00
	County Site	1	JB	\$5,300.00	\$5,300.00	20%	\$6,360.00
0011	Traffic Control	1	JB	\$149,300.00	\$149,300.00	20%	\$179,200.00
Total Cost w/ Contingency							\$6,863,482.00
Rounded Total Estimated Cost for Site Preparation w/ contingency							\$6,863,000.00
					303750	\$/cy	\$22.59

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Construction Cost Alternative 04 (50% Qty)	Estimated By:	CRC
LOCATION:	Allegheny County, PA	Checked By:	RPW
COST LEVEL:	April 2006	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCost - 2nd Rev Aug 06
Alternative 4: Drain the Lake (Mechanical Removal)		Date:	8/24/2006

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$25,312.00	\$25,312.00	20%	\$30,374.40
0002	Excavation / Trucking	174150	CY	\$9.00	\$1,567,350.00	20%	\$1,880,820.00
0003	Spreading	174150	CY	\$2.30	\$400,545.00	20%	\$480,654.00
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$230,500.00	\$230,500.00	20%	\$276,600.00
	County Site	1	JB	\$89,900.00	\$89,900.00	20%	\$107,880.00
	Wildwood	1	JB	\$342,300.00	\$342,300.00	20%	\$410,760.00
0005	Access Ramps						
	Mars	1	JB	\$25,900.00	\$25,900.00	20%	\$31,080.00
	Goldstar	1	JB	\$72,100.00	\$72,100.00	20%	\$86,520.00
	Pierce Mill	1	JB	\$79,500.00	\$79,500.00	20%	\$95,400.00
	Rose Barn	0	JB	\$26,400.00	\$0.00	20%	\$0.00
	The Point	0	JB	\$32,800.00	\$0.00	20%	\$0.00
0006	Stream Diversion	1	JB	\$529,000.00	\$529,000.00	19%	\$631,100.00
0007	Sediment Control	1	LS	\$17,095.00	\$17,095.00	20%	\$20,514.00
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$11.00	\$132,000.00	20%	\$158,400.00
0008b	Rock	3700	CY	\$48.00	\$177,600.00	20%	\$213,120.00
0009	Environmental Improvements						
	Aquatic Improvements	1	LS	\$180,000.00	\$180,000.00	20%	\$216,000.00
	Osprey Nests	2	EA	\$2,500.00	\$5,000.00	20%	\$6,000.00
	Coir Logs	5600	LF	\$53.00	\$296,800.00	20%	\$356,160.00
0010	Plantings						
	Shoreline	1	JB	\$48,237.00	\$48,237.00	20%	\$57,884.40
	Wildwood	1	JB	\$77,676.00	\$77,676.00	20%	\$93,211.20
	Bull Pen	1	JB	\$7,900.00	\$7,900.00	20%	\$9,480.00
	County Site	1	JB	\$5,300.00	\$5,300.00	20%	\$6,360.00
0011	Traffic Control	1	JB	\$149,300.00	\$149,300.00	20%	\$179,200.00
Total Cost w/ Contingency							\$5,347,518.00
Rounded Total Estimated Cost for Site Preparation w/ contingency							\$5,348,000.00
					202500	\$/cy	\$26.41

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Construction Cost Alternative 04 (25% Qty)	Estimated By:	CRC
LOCATION:	Allegheny County, PA	Checked By:	RPW
COST LEVEL:	April 2006	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCos t - 2nd Rev Aug 06
Alternative 4: Drain the Lake (Mechanical Remove)		Date:	8/24/2006

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$25,740.00	\$25,740.00	20%	\$30,888.00
0002	Excavation / Trucking	87075	CY	\$8.16	\$710,532.00	20%	\$852,638.40
0003	Spreading	87075	CY	\$2.23	\$194,177.25	20%	\$233,012.70
0004	Sediment Placement Site Prep						
	Bull Pen	1	JB	\$230,500.00	\$230,500.00	20%	\$276,600.00
	County Site	1	JB	\$89,900.00	\$89,900.00	20%	\$107,880.00
	Wildwood	0	JB	\$342,300.00	\$0.00	20%	\$0.00
0005	Access Ramps						
	Mars	1	JB	\$25,900.00	\$25,900.00	20%	\$31,080.00
	Goldstar	1	JB	\$72,100.00	\$72,100.00	20%	\$86,520.00
	Pierce Mill	1	JB	\$79,500.00	\$79,500.00	20%	\$95,400.00
	Rose Barn	0	JB	\$26,400.00	\$0.00	20%	\$0.00
	The Point	0	JB	\$32,800.00	\$0.00	20%	\$0.00
0006	Stream Diversion	1	JB	\$381,500.00	\$381,500.00	19%	\$454,800.00
0007	Sediment Control	1	LS	\$12,433.00	\$12,433.00	20%	\$14,919.60
0008	Wetland Protection Rock Berm						
0008a	Excavation	12000	CY	\$11.00	\$132,000.00	20%	\$158,400.00
0008b	Rock	3700	CY	\$48.00	\$177,600.00	20%	\$213,120.00
0009	Environmental Improvements						
	Aquatic Improvements	1	LS	\$180,000.00	\$180,000.00	20%	\$216,000.00
	Osprey Nests	2	EA	\$2,500.00	\$5,000.00	20%	\$6,000.00
	Coir Logs	5600	LF	\$53.00	\$296,800.00	20%	\$356,160.00
0010	Plantings						
	Shoreline	1	JB	\$48,237.00	\$48,237.00	20%	\$57,884.40
	Wildwood	1	JB	\$77,676.00	\$77,676.00	20%	\$93,211.20
	Bull Pen	1	JB	\$7,900.00	\$7,900.00	20%	\$9,480.00
	County Site	1	JB	\$5,300.00	\$5,300.00	20%	\$6,360.00
0011	Traffic Control	1	JB	\$38,500.00	\$38,500.00	20%	\$46,200.00
Total Cost w/ Contingency							\$3,346,554.30
Rounded Total Estimated Cost for Site Preparation w/ contingency							\$3,347,000.00
					101250	\$/cy	\$33.06

**North Park Lake
Section 206
Aquatic Ecosystem Restoration
Allegheny County, Pennsylvania**

**Preferred Plan Cost Estimates
Sediment Placement Areas / Access Ramps**

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation	Estimated By:	CRC
LOCATION:	Allegheny County, PA	Checked By:	RPW
COST LEVEL:	April 2006	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCost - 2nd Rev Aug 06
Wildwood Road Sediment Placement Site		Date:	8/24/2006

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$10,500.00	\$10,500.00	20%	\$12,600.00
0002	Remove Topsoil / Stockpile / Replace	1	AC	\$6,365.00	\$6,365.00	20%	\$7,638.00
0003	Clearing	9	AC	\$2,725.00	\$24,525.00	20%	\$29,430.00
0004	Seeding						
	Temp w/ Mulch	5	AC	\$2,825.00	\$14,125.00	20%	\$16,950.00
	Permanent	30	AC	\$3,400.00	\$102,000.00	20%	\$122,400.00
0005	Erosion Control Blanket	8	AC	\$5,735.00	\$45,880.00	20%	\$55,056.00
0006	Drainage Ditches (Total)	3800	LF				
0006A	Excavation	200	CY	\$22.15	\$4,430.00	20%	\$5,316.00
0006B	R-5 Rock	50	CY	\$77.70	\$3,885.00	20%	\$4,662.00
0006C	Erosion Control Mat	850	SY	\$8.80	\$7,480.00	20%	\$8,976.00
0006D	Grass Lined Ditch		SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC)	0	SY		\$0.00	20%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,440.00	\$5,440.00	20%	\$6,528.00
0008	Silt Barrier Fence						
	18 IN	1000	LF	\$1.10	\$1,100.00	20%	\$1,320.00
	Super Silt Fence	1000	LF	\$1.25	\$1,250.00	20%	\$1,500.00
0009	Sediment Trap	3					
	18 Inch Inlet/Outlet	3	EA	\$625.00	\$1,875.00	20%	\$2,250.00
	R-5 Outlet	150	CY	\$52.25	\$7,837.50	20%	\$9,405.00
0010	Spoil	350000	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	100	LF	\$48.50	\$4,850.00	20%	\$5,820.00
0011B	24 Inch	0	LF		\$0.00	20%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	20%	\$0.00
						20%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	20%	\$0.00
	R-5	75	CY	\$57.40	\$4,305.00	20%	\$5,166.00
	Structures						
	Picnic Shelter	0	EA		\$0.00	20%	\$0.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
Wildwood Road Sediment Placement Site		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCost - 2nd Rev Aug 06	
		Date:	8/24/2006	

Stability Berm	100	CY	\$7.70	\$770.00	20%	\$924.00
Common Excavation	2,000	CY	\$8.65	\$17,300.00	20%	\$20,760.00
Total Disturbed Area	47.1	AC				
Access Roads						
Excavation	7,000.0	CY	\$8.70	\$60,900.00	20%	\$73,080.00
8" AASHTO #1	300.0	CY	\$45.80	\$13,740.00	20%	\$16,488.00
Geotextile	1,425.0	SY	\$2.60	\$3,705.00	20%	\$4,446.00
R-4 Rock	0	CY		\$0.00	20%	\$0.00

Totals	\$342,262.50	\$410,715.00
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Rounded Total Estimated Cost for Site Preparation	\$342,300.00	\$411,000.00
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Unit Cost	\$/CY	\$1.17
Development Unit Cost	\$/acre	\$8,700

PROJECT: North Park Lake & Pine Creek,
Sec 206, Aquatic Ecosystem Restoration
Site Preparation
LOCATION: Allegheny County, PA
COST LEVEL: April 2006

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Estimated By: CRC

Checked By: RPW

Filename: O:/EC/EC-EV/L/North
Park/NPLScreeningC
ost - 2nd Rev Aug 06

Date: 8/24/2006

County Sediment Placement Site

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$7,010.00	\$7,010.00	20%	\$8,412.00
0002	Remove Topsoil / Stockpile / Replace	0	AC		\$0.00	20%	\$0.00
0003	Clearing	0	AC		\$0.00	20%	\$0.00
0004	Seeding						
	Temp w/ Mulch	3	AC	\$2,805.00	\$8,415.00	20%	\$10,098.00
	Permanent	6.5	AC	\$3,905.00	\$25,382.50	20%	\$30,459.00
0005	Erosion Control Blanket	6.5	AC	\$5,825.00	\$37,862.50	20%	\$45,435.00
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	20%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	20%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	20%	\$0.00
0006D	Grass Lined Ditch	0	SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC	0	SY		\$0.00	20%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,440.00	\$5,440.00	20%	\$6,528.00
0008	Silt Barrier Fence						
	18 IN	0	LF		\$0.00	20%	\$0.00
	Super Silt Fence	2385	LF	\$1.10	\$2,623.50	20%	\$3,148.20
0009	Sediment Trap	0					
	18 Inch Inlet/Outlet	0	EA		\$0.00	20%	\$0.00
	R-5 Outlet	0	CY		\$0.00	20%	\$0.00
0010	Spoil	45000	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	20%	\$0.00
0011B	24 Inch	0	LF		\$0.00	20%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	20%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	20%	\$0.00
	R-5	0	CY		\$0.00	20%	\$0.00
	Structures						
	Picnic Shelter	0	EA		\$0.00	20%	\$0.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
County Sediment Placement Site		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date:	8/24/2006	

Stability Berm	0	CY		\$0.00	20%	\$0.00
Total Disturbed Area	6.5	AC		\$0.00	20%	\$0.00
Access Roads						
Excavation	40.0	CY	\$13.60	\$544.00	20%	\$652.80
8" AASHTO #1	40.0	CY	\$50.30	\$2,012.00	20%	\$2,414.40
Geotextile	170.0	SY	\$3.30	\$561.00	20%	\$673.20
R-4 Rock	0	CY		\$0.00	20%	\$0.00
				\$89,850.50	Total	\$107,820.60
Rounded Total Estimated Cost for Site Preparation				\$89,900.00		\$108,000.00

Unit Cost	\$/CY	\$2.40
Development Unit Cost	\$/acre	\$16,600

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation	Estimated By:	CRC	Page 1 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCost - 2nd Rev Aug 06	
Bull Pen (Sediment Placement Site)		Date:	8/24/2006	

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$10,513.00	\$10,513.00	20%	\$12,615.60
0002	Remove Topsoil / Stockpile / Replace	2	AC	\$6,765.00	\$13,530.00	20%	\$16,236.00
0003	Clearing	0	AC		\$0.00	20%	\$0.00
0004	Seeding						
	Temp w/ Mulch	1	AC	\$2,860.00	\$2,860.00	20%	\$3,432.00
	Permanent	6.5	AC	\$3,905.00	\$25,382.50	20%	\$30,459.00
0005	Erosion Control Blanket	6	AC	\$5,735.00	\$34,410.00	20%	\$41,292.00
0006	Drainage Ditches (Total)	1350	LF				
0006A	Excavation	800	CY	\$20.60	\$16,480.00	20%	\$19,776.00
0006B	R-5 Rock	0	CY		\$0.00	20%	\$0.00
0006C	Erosion Control Mat	4000	SY	\$8.25	\$33,000.00	20%	\$39,600.00
0006D	Grass Lined Ditch		SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC)	0	SY		\$0.00	20%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,440.00	\$5,440.00	20%	\$6,528.00
0008	Silt Barrier Fence						
	18 IN	1400	LF	\$1.05	\$1,470.00	20%	\$1,764.00
	Super Silt Fence	0	LF		\$0.00	20%	\$0.00
0009	Sediment Trap	1					
	18 Inch Inlet/Outlet	1	EA	\$625.00	\$625.00	20%	\$750.00
	R-5 Outlet	500	CY	\$51.00	\$25,500.00	20%	\$30,600.00
0010	Spoil	75000	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	20%	\$0.00
0011B	24 Inch	210	LF	\$53.50	\$11,235.00	20%	\$13,482.00
0011C	Drop Inlet	0	EA		\$0.00	20%	\$0.00
						20%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	20%	\$0.00
	R-5	0	CY		\$0.00	20%	\$0.00
	Structures						
	Picnic Shelter	0	EA		\$0.00	20%	\$0.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006	Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCost - 2nd Rev Aug 06	
Bull Pen (Sediment Placement Site)		Date:	8/24/2006	

Stability Berm	0	CY		\$0.00	20%	\$0.00
Total Disturbed Area	6.5	AC		\$0.00	20%	\$0.00
Access Roads						
Excavation	3,500.0	CY	\$8.70	\$30,450.00	20%	\$36,540.00
8" AASHTO #1	300.0	CY	\$45.80	\$13,740.00	20%	\$16,488.00
Geotextile	1,350.0	SY	\$2.40	\$3,240.00	20%	\$3,888.00
R-4 Rock	50	CY	\$53.30	\$2,665.00	20%	\$3,198.00

\$230,540.50 Total \$276,648.60

Rounded Total Estimated Cost for Site Preparation \$230,500.00 \$277,000.00

Unit Cost \$/CY \$3.69
Development Unit Cost \$/acre \$42,600

PROJECT: North Park Lake & Pine Creek,
Sec 206, Aquatic Ecosystem Restoration
Site Preparation - Transfer/Disposal Areas

LOCATION: Allegheny County, PA

COST LEVEL: April 2006

Page 1 of 2

Estimated By: CRC

Checked By: RPW

Filename: O:/EC/EC-EV/L/North
Park/NPLScreeningC
ost - 2nd Rev Aug 06

Date: 8/24/2006

Mars

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$2,750.00	\$2,750.00	20%	\$3,300.00
0002	Remove Topsoil / Stockpile / Replace	1.75	AC	\$3,300.00	\$5,775.00	20%	\$6,930.00
0003	Clearing	0	AC		\$0.00	20%	\$0.00
0004	Seeding						
	Temp w/ Mulch	1	AC	\$1,650.00	\$1,650.00	20%	\$1,980.00
	Permanent	2	AC	\$2,750.00	\$5,500.00	20%	\$6,600.00
0005	Erosion Control Blanket	2	AC	\$2,750.00	\$5,500.00	20%	\$6,600.00
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY	\$11.00	\$0.00	20%	\$0.00
0006B	R-5 Rock	0	CY	\$90.00	\$0.00	20%	\$0.00
0006C	Erosion Control Mat	0	SY	\$4.40	\$0.00	20%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC	4100	SY	\$11.00	\$45,100.00	20%	\$54,120.00
0007	Rock Construction Entrance	1	EA	\$2,750.00	\$2,750.00	20%	\$3,300.00
0008	Silt Barrier Fence						
	18 IN	0	LF	\$3.30	\$0.00	20%	\$0.00
	Super Silt Fence	650	LF	\$4.40	\$2,860.00	20%	\$3,432.00
	Safety Fence	550	LF	\$4.40	\$2,420.00	20%	\$2,904.00
0009	Sediment Pond						
	18 IN	0			\$0.00	20%	\$0.00
	R-5 Outlet	0	CY	\$90.00	\$0.00	20%	\$0.00
0010	Spoil	0	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	25	LF	\$22.00	\$550.00	20%	\$660.00
0011B	24 Inch	0	LF	\$33.00	\$0.00	20%	\$0.00
0011C	Drop Inlet	0	EA	\$0.00	\$0.00	20%	\$0.00
	Rock Fill						
	R-4	100	CY	\$83.00	\$8,300.00	20%	\$9,960.00
	R-5	0	CY	\$90.00	\$0.00	20%	\$0.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
Mars		Date:	8/24/2006	

Structures							
Picnic Shelter	1	ea	\$27,500.00	\$27,500.00	20%	\$33,000.00	
Stability Berm	400	CY	\$11.00	\$4,400.00	20%	\$5,280.00	
Total Disturbed Area	2.0	AC		\$0.00	20%	\$0.00	
Access Roads							
Excavation	110.0	CY	\$11.00	\$1,210.00	20%	\$1,452.00	
8" AASHTO #1	110.0	CY	\$33.00	\$3,630.00	20%	\$4,356.00	
Geotextile	500.0	SY	\$3.90	\$1,950.00	20%	\$2,340.00	
R-4 Rock	50	CY	\$55.00	\$2,750.00	20%	\$3,300.00	
				\$124,595.00		\$149,514.00	
Rounded Total Estimated Cost for Site Preparation				\$124,600.00		\$150,000.00	

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC	Page 1 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
Rose Barn Access Site		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date:	8/24/2006	

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	20%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.5	AC	\$5,660.00	\$2,830.00	20%	\$3,396.00
0003	Clearing	0	AC		\$0.00	20%	\$0.00
0004	Seeding						
	Temp w/ Mulch	0	AC		\$0.00	20%	\$0.00
	Permanent	0.5	AC	\$4,330.00	\$2,165.00	20%	\$2,598.00
0005	Erosion Control Blanket	0.5	AC	\$5,970.00	\$2,985.00	20%	\$3,582.00
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	20%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	20%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	20%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC	0	SY		\$0.00	20%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,440.00	\$5,440.00	20%	\$6,528.00
0008	Silt Barrier Fence						
	18 IN	200	LF	\$1.00	\$200.00	20%	\$240.00
	Super Silt Fence	50	LF	\$1.65	\$82.50	20%	\$99.00
	Safety Fence	250	LF	\$3.65	\$912.50	20%	\$1,095.00
0009	Sediment Pond	0					
	18 IN	0	LF		\$0.00	20%	\$0.00
	R-5 Outlet	0	CY		\$0.00	20%	\$0.00
0010	Spoil	0	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	20%	\$0.00
0011B	24 Inch	0	LF		\$0.00	20%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	20%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	20%	\$0.00
	R-5	0	CY		\$0.00	20%	\$0.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
Rose Barn Access Site		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date:	8/24/2006	

Structures						
Picnic Shelter	0	ea		\$0.00	20%	\$0.00
Stability Berm	0	CY		\$0.00	20%	\$0.00
Common Excavation	125	CY	\$17.30	\$2,162.50	20%	\$2,595.00
Total Disturbed Area	0.5	AC				
Access Roads						
Excavation	185.0	CY	\$13.95	\$2,580.75	20%	\$3,096.90
8" AASHTO #1	125.0	CY	\$44.10	\$5,512.50	20%	\$6,615.00
Geotextile	550.0	SY	\$2.80	\$1,540.00	20%	\$1,848.00
R-4 Rock	0	CY		\$0.00	20%	\$0.00
				\$26,410.75		\$31,692.90
Rounded Total Estimated Cost for Site Preparation				\$26,400.00		\$32,000.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By: CRC	Page 1 of 2
LOCATION:	Allegheny County, PA	Checked By: RPW	
COST LEVEL:	April 2006		
Pearce Mill Road Access Site		Filename: O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date: 8/24/2006	

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	20%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.5	AC	\$5,660.00	\$2,830.00	20%	\$3,396.00
0003	Clearing	0	AC		\$0.00	20%	\$0.00
0004	Seeding						
	Temp w/ Mulch	0	AC		\$0.00	20%	\$0.00
	Permanent	0.5	AC	\$4,330.00	\$2,165.00	20%	\$2,598.00
0005	Erosion Control Blanket	0.5	AC	\$5,970.00	\$2,985.00	20%	\$3,582.00
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	20%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	20%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	20%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC	0	SY		\$0.00	20%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,440.00	\$5,440.00	20%	\$6,528.00
0008	Silt Barrier Fence						
	18 IN	100	LF	\$1.50	\$150.00	20%	\$180.00
	Super Silt Fence	50	LF	\$1.65	\$82.50	20%	\$99.00
	Safety Fence	100	LF	\$3.60	\$360.00	20%	\$432.00
0009	Sediment Pond	0					
	18 IN	0	LF		\$0.00	20%	\$0.00
	R-5 Outlet	0	CY		\$0.00	20%	\$0.00
0010	Spoil	0	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	20%	\$0.00
0011B	24 Inch	0	LF		\$0.00	20%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	20%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	20%	\$0.00
	R-5	0	CY		\$0.00	20%	\$0.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
Pearce Mill Road Access Site		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date:	8/24/2006	

Structures							
Picnic Shelter	0	ea		\$0.00	20%		\$0.00
Stability Berm	0	CY		\$0.00	20%		\$0.00
Common Excavation	0	CY		\$0.00	20%		\$0.00
Total Disturbed Area	0.5	AC					
Access Roads							
Excavation	250.0	CY	\$10.30	\$2,575.00	20%		\$3,090.00
8" AASHTO #1	110.0	CY	\$47.20	\$5,192.00	20%		\$6,230.40
Geotextile	0.0	SY		\$0.00	20%		\$0.00
R-4 Rock (Includes removal cost)	1,400	CY	\$41.20	\$57,680.00	20%		\$69,216.00
				\$79,459.50			\$95,351.40
Rounded Total Estimated Cost for Site Preparation				\$79,500.00			\$95,000.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC
LOCATION:	Allegheny County, PA	Checked By:	RPW
COST LEVEL:	April 2006		
Goldstar Access		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06
		Date:	8/24/2006

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	20%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.3	AC	\$8,025.00	\$2,407.50	20%	\$2,889.00
0003	Clearing	0	AC		\$0.00	20%	\$0.00
0004	Seeding						
	Temp w/ Mulch	0.3	AC	\$3,520.00	\$1,056.00	20%	\$1,267.20
	Permanent	0.3	AC	\$4,640.00	\$1,392.00	20%	\$1,670.40
0005	Erosion Control Blanket	0.3	AC	\$7,620.00	\$2,286.00	20%	\$2,743.20
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	20%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	20%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	20%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC	0	SY		\$0.00	20%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,440.00	\$5,440.00	20%	\$6,528.00
0008	Silt Barrier Fence						
	18 IN	0	LF		\$0.00	20%	\$0.00
	Super Silt Fence	225	LF	\$1.55	\$348.75	20%	\$418.50
0009	Sediment Pond	0					
	18 IN	0	LF		\$0.00	20%	\$0.00
	R-5 Outlet	0	CY		\$0.00	20%	\$0.00
0010	Spoil	0	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	25	LF	\$57.95	\$1,448.75	20%	\$1,738.50
0011B	24 Inch	0	LF		\$0.00	20%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	20%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	20%	\$0.00
	R-5	0	CY		\$0.00	20%	\$0.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
Goldstar Access		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date:	8/24/2006	

Structures							
Picnic Shelter	1	ea	\$31,375.00	\$31,375.00	20%	\$37,650.00	
Stability Berm	0	CY		\$0.00	20%	\$0.00	
Total Disturbed Area	0.5	AC		\$0.00	20%	\$0.00	
Access Roads							
Excavation	250.0	CY	\$10.30	\$2,575.00	20%	\$3,090.00	
8" AASHTO #1	250.0	CY	\$44.10	\$11,025.00	20%	\$13,230.00	
Geotextile	1,100.0	SY	\$2.65	\$2,915.00	20%	\$3,498.00	
R-4 Rock	200	CY	\$49.05	\$9,810.00	20%	\$11,772.00	
				\$72,079.00		\$86,494.80	
Rounded Total Estimated Cost for Site Preparation				\$72,100.00		\$86,000.00	

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC	Page 1 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
Mars Access Ramp Only		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date:	8/24/2006	

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	20%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.5	AC	\$6,735.00	\$3,367.50	20%	\$4,041.00
0003	Clearing	0.5	AC	\$1,930.00	\$965.00	20%	\$1,158.00
0004	Seeding						
	Temp w/ Mulch	0	AC		\$0.00	20%	\$0.00
	Permanent	0.5	AC	\$4,330.00	\$2,165.00	20%	\$2,598.00
0005	Erosion Control Blanket	0.5	AC	\$5,970.00	\$2,985.00	20%	\$3,582.00
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	20%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	20%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	20%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC	0	SY		\$0.00	20%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,440.00	\$5,440.00	20%	\$6,528.00
0008	Silt Barrier Fence						
	18 IN	100	LF	\$1.50	\$150.00	20%	\$180.00
	Super Silt Fence	50	LF	\$1.65	\$82.50	20%	\$99.00
	Safety Fence	100	LF	\$3.70	\$370.00	20%	\$444.00
0009	Sediment Pond	0					
	18 IN	0			\$0.00	20%	\$0.00
	R-5 Outlet	0	CY		\$0.00	20%	\$0.00
0010	Spoil	0	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	20%	\$0.00
0011B	24 Inch	0	LF		\$0.00	20%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	20%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	20%	\$0.00
	R-5	0	CY		\$0.00	20%	\$0.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
Mars Access Ramp Only		Date:	8/24/2006	

Structures						
Picnic Shelter	0	ea		\$0.00	20%	\$0.00
Stability Berm	0	CY		\$0.00	20%	\$0.00
Total Disturbed Area	0.5	AC		\$0.00	20%	\$0.00
Access Roads						
Excavation	110.0	CY	\$9.90	\$1,089.00	20%	\$1,306.80
8" AASHTO #1	110.0	CY	\$47.20	\$5,192.00	20%	\$6,230.40
Geotextile	500.0	SY	\$2.80	\$1,400.00	20%	\$1,680.00
R-4 Rock	50	CY	\$53.30	\$2,665.00	20%	\$3,198.00
				\$25,871.00		\$31,045.20
Rounded Total Estimated Cost for Site Preparation				\$25,900.00		\$31,000.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Site Preparation - Transfer/Disposal Areas	Estimated By:	CRC	Page 1 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
Point Access Ramp Only		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date:	8/24/2006	

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Mob and Demobilization	1	JOB	\$0.00	\$0.00	20%	\$0.00
0002	Remove Topsoil / Stockpile / Replace	0.5	AC	\$5,660.00	\$2,830.00	20%	\$3,396.00
0003	Clearing	0	AC		\$0.00	20%	\$0.00
0004	Seeding						
	Temp w/ Mulch	0	AC		\$0.00	20%	\$0.00
	Permanent	0.5	AC	\$4,330.00	\$2,165.00	20%	\$2,598.00
0005	Erosion Control Blanket	0.5	AC	\$5,970.00	\$2,985.00	20%	\$3,582.00
0006	Drainage Ditches (Total)	0	LF				
0006A	Excavation	0	CY		\$0.00	20%	\$0.00
0006B	R-5 Rock	0	CY		\$0.00	20%	\$0.00
0006C	Erosion Control Mat	0	SY		\$0.00	20%	\$0.00
0006D	Grass Lined Ditch		SY		\$0.00	20%	\$0.00
	Liner (30 mil PVC	0	SY		\$0.00	20%	\$0.00
0007	Rock Construction Entrance	1	EA	\$5,440.00	\$5,440.00	20%	\$6,528.00
0008	Silt Barrier Fence						
	18 IN	100	LF	\$1.50	\$150.00	20%	\$180.00
	Super Silt Fence	50	LF	\$1.65	\$82.50	20%	\$99.00
	Safety Fence	100	LF	\$1.45	\$145.00	20%	\$174.00
0009	Sediment Pond	0					
	18 IN	0			\$0.00	20%	\$0.00
	R-5 Outlet	0	CY		\$0.00	20%	\$0.00
0010	Spoil	0	CY		\$0.00	20%	\$0.00
0011	Culverts						
0011A	18 Inch	0	LF		\$0.00	20%	\$0.00
0011B	24 Inch	0	LF		\$0.00	20%	\$0.00
0011C	Drop Inlet	0	EA		\$0.00	20%	\$0.00
	Rock Fill						
	R-4	0	CY		\$0.00	20%	\$0.00
	R-5	0	CY		\$0.00	20%	\$0.00

Page 2 of 2	
Estimated By:	CRC
Checked By:	RPW
Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06
Date:	8/24/2006

Filename:	ost - 2nd Rev Aug 06
Date:	8/24/2006

Rounded Total Estimated Cost for Site Preparation	\$32,800.00	\$39,000.00
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**North Park Lake
Section 206
Aquatic Ecosystem Restoration
Allegheny County, Pennsylvania**

**Preferred Plan Cost Estimates
Miscellaneous**

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Environmental Improvements	Estimated By:	CRC
LOCATION:	Allegheny County, PA	Checked By:	RPW
COST LEVEL:	April 2006		
Acquatic Habitat / Osprey Nests / Coir Logs		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06
		Date:	8/24/2006

	<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
0001	Procupine Cribs	160	ea	\$126.00	\$20,160.00	20%	\$24,192.00
0002	Procupine Cribs Junior	560	ea	\$110.00	\$61,600.00	20%	\$73,920.00
0003	Rock Piles	180	TN	\$58.00	\$10,440.00	20%	\$12,528.00
0004	Rock Humps	1860	TN	\$40.00	\$74,400.00	20%	\$89,280.00
0005	Gravel Placements	316	TN	\$41.00	\$12,956.00	20%	\$15,547.20
	Aquatic Habitat Totals (Rounded)				\$180,000.00		\$215,000.00
0006	Osprey Nests	2	ea	\$2,500.00	\$5,000.00	20%	\$6,000.00
0007	Coir Logs						
	Coir Logs (Mat'l Cost)	5600	LF	\$42.00	\$235,200.00	20%	\$282,000.00
	Installation	5600	LF	\$4.00	\$22,400.00	20%	\$27,000.00
	Excavation	5600	LF	\$6.50	\$36,400.00	20%	\$44,000.00
	Stakes/Misc	5600	LF	\$0.75	\$4,200.00	20%	\$5,000.00
	Safety Fence	3000	LF			20%	
				\$53.25	\$298,200.00		\$358,000.00
		Rounded U/P		\$53.00			

Rounded Total Estimated Cost for Environmental Improvements	\$483,000.00	\$579,000.00
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PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Plantings	Estimated By:	CRC	Page 1 of 1
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
Plantings		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date:	8/24/2006	

<u>Item Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
Shoreline Plantings						
<i>Riparian Buffers</i>						
Shoreline Shrubs	0.33	AC	\$9,450.00	\$3,118.50	20%	\$3,700.00
Herbaceous Plants	0.5	AC	\$6,300.00	\$3,150.00	20%	\$3,800.00
Wetland Native Seed Mix	0.56	AC	\$2,100.00	\$1,176.00	20%	\$1,400.00
Bottomland Hardwood Trees	0.33	AC	\$5,250.00	\$1,732.50	20%	\$2,100.00
<i>Emergent Shoreline Wetlands</i>						
Wetland Grasses, Sedges &	0.5	AC	\$8,400.00	\$4,200.00	20%	\$5,000.00
Wetland Herbaceous Plants	0.5	AC	\$12,600.00	\$6,300.00	20%	\$7,600.00
Plant Placement Cost	2.72	AC	\$10,500.00	\$28,560.00	20%	\$34,300.00
Total				\$48,237.00		\$57,900.00

Wildwood Plantings						
	Matl	Lab	Equip	Subtotal		
Bare Root Seedlings	\$5,300.00	\$2,100.00	\$0.00	\$7,400.00		
Seeding Mixture A	\$630.00			\$630.00		
Seeding Mixture B	\$12,600.00			\$12,600.00		
Mulch/Fertilizer	\$15,750.00	\$15,750.00	\$12,600.00	\$44,100.00		
			Subtotal	\$64,730.00		
			Markup	20.00%		
			Total	\$77,676.00		

Bull Pen Planting	1	LS	\$7,900.00	\$7,900.00	20%	\$9,500.00
County Site Plantings	1	LS	\$5,300.00	\$5,300.00	20%	\$6,400.00

PROJECT: North Park Lake & Pine Creek,
Sec 206, Aquatic Ecosystem Restoration
Stream Diversion
LOCATION: Allegheny County, PA
COST LEVEL: April 2006

Page 1 of 2

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
Park/NPLScreeningCo
st - 2nd Rev Aug 06

Filename:

Date: 8/24/2006

Stream Diversion

Item Description	Quantity	Unit	Unit Price	Amount	Contingency	Total Cost
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Temp Channel (applies to all levels - 100%, 75%, 50%, and 25%)

Initial Excavation (no disp)	8000	CY	\$6.00	\$48,000.00	20%	\$57,600.00
Lining	17000	SY	\$2.50	\$42,500.00	20%	\$51,000.00
Additional Excavation (disposed)	8000	CY	\$6.00	\$48,000.00	20%	\$57,600.00
Rock Crossing	6	ea	\$5,000.00	\$30,000.00	20%	\$36,000.00
Misc	1	LS	\$12,000.00	\$12,000.00	0%	\$12,000.00
				\$180,500.00		
				Temp Channel Total		\$214,200.00

100% Removal

Pump Around (Using Existing Spillway)

Pump Rental (10 @ 4500GPM)	12	Mo	\$30,000.00	\$360,000.00	20%	\$432,000.00
Pipe Rental (18" HTPE)	10000	LF	\$2.80	\$28,000.00	20%	\$33,600.00
Fuse Joints	10000	LF	\$2.60	\$26,000.00	20%	\$31,200.00
Operating Cost (24 hrs/day)	12	Mo	\$18,000.00	\$216,000.00	20%	\$259,200.00
Misc Cost	1	LS	\$18,000.00	\$18,000.00	0%	\$18,000.00
				\$648,000.00		
				Pumping Total		\$774,000.00

75% Removal

Pump Around (Using Existing Spillway)

Pump Rental (10 @ 4500GPM)	9	Mo	\$30,000.00	\$270,000.00	20%	\$324,000.00
Pipe Rental (18" HTPE)	10000	LF	\$2.80	\$28,000.00	20%	\$33,600.00
Fuse Joints	10000	LF	\$2.60	\$26,000.00	20%	\$31,200.00
Operating Cost (24 hrs/day)	9	Mo	\$16,000.00	\$144,000.00	20%	\$172,800.00
Misc Cost	1	LS	\$12,000.00	\$12,000.00	0%	\$12,000.00
				\$480,000.00		
				Pumping Total		\$573,600.00

50% Removal

Pump Around (Using Existing Spillway)

Pump Rental (10 @ 4500GPM)	6	Mo	\$30,000.00	\$180,000.00	20%	\$216,000.00
Pipe Rental (18" HTPE)	10000	LF	\$2.80	\$28,000.00	20%	\$33,600.00
Fuse Joints	10000	LF	\$2.60	\$26,000.00	20%	\$31,200.00
Operating Cost (24 hrs/day)	6	Mo	\$18,000.00	\$108,000.00	20%	\$129,600.00
Misc Cost	1	LS	\$6,500.00	\$6,500.00	0%	\$6,500.00
				\$348,500.00		
				Pumping Total		\$416,900.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Stream Diversion	Estimated By:	CRC	Page 1 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCo st - 2nd Rev Aug 06	
Stream Diversion		Date:	8/24/2006	

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Stream Diversion	Estimated By:	CRC	Page 2 of 2
LOCATION:	Allegheny County, PA	Checked By:	RPW	
COST LEVEL:	April 2006			
		Filename:	O:/EC/EC-EV/L/North Park/NPLScreeningCo st - 2nd Rev Aug 06	
Stream Diversion		Date:	8/24/2006	

25% Removal

Pump Around (Using Existing Spillway)

Pump Rental (10 @ 4500GPM)	3	Mo	\$30,000.00	\$90,000.00	20%	\$108,000.00
Pipe Rental (18" HTPE)	10000	LF	\$2.80	\$28,000.00	20%	\$33,600.00
Fuse Joints	10000	LF	\$2.60	\$26,000.00	20%	\$31,200.00
Operating Cost (24 hrs/day)	3	Mo	\$18,000.00	\$54,000.00	20%	\$64,800.00
Misc Cost	1	LS	\$3,000.00	\$3,000.00	0%	\$3,000.00
				\$201,000.00		
				Pumping Total		\$240,600.00

	<u>Removal</u>		
Rounded Total Estimated Cost for Stream Diversion	100%	\$828,500.00	\$988,200.00
	75%	\$660,500.00	\$787,800.00
	50%	\$529,000.00	\$631,100.00
	25%	\$381,500.00	\$454,800.00

PROJECT:	North Park Lake & Pine Creek, Sec 206, Aquatic Ecosystem Restoration Traffic Control	Estimated By: CRC	Page 1 of 1
LOCATION:	Allegheny County, PA	Checked By: RPW	
COST LEVEL:	April 2006		
Traffic Control		Filename: O:/EC/EC-EV/L/North Park/NPLScreeningC ost - 2nd Rev Aug 06	
		Date: 8/24/2006	

<u>Item Description</u>		<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>	<u>Contingency</u>	<u>Total Cost</u>
Jersey Barriers	50 - 100%	5000	LF	\$12.50	\$62,500.00	20%	\$75,000.00
	25%	1000	LF	\$12.50	\$12,500.00	20%	\$15,000.00
Temp Signage	50 - 100%	1	LS	\$6,000.00	\$6,000.00	20%	\$7,200.00
	25%	1	LS	\$2,500.00	\$2,500.00	20%	\$3,000.00
Road Surv/Rprs	50 - 100%	1	LS	\$25,000.00	\$25,000.00	20%	\$30,000.00
	25%	1	LS	\$10,000.00	\$10,000.00	20%	\$12,000.00
Misc Additional Controls (100%)		1	LS	\$71,600.00	\$71,600.00	20%	\$85,900.00
	75%	1	LS	\$55,800.00	\$55,800.00	20%	\$67,000.00
	50%	1	LS	\$55,800.00	\$55,800.00	20%	\$67,000.00
	25%	1	LS	\$13,500.00	\$13,500.00	20%	\$16,200.00
Totals		100%			\$165,100.00		\$198,100.00
		75%			\$149,300.00		\$179,200.00
		50%			\$149,300.00		\$179,200.00
		25%			\$38,500.00		\$46,200.00

PROJECT: North Park Lake & Pine Creek,
Sec 206, Aquatic Ecosystem Restoration
Spreading Fill
LOCATION: Allegheny County, PA
COST LEVEL: April 2006

Page 1 of 1

Estimated By: CRC

Checked By: RPW

O:/EC/EC-EV/L/North
Park/NPLScreeningC
ost - 2nd Rev Aug 06

Filename:

Date: 8/24/2006

Spreading Fill at Sediment Placement Areas

Spreading at fill site (with hydraulic dredging and geotubes)

	\$/hr	qty	Total \$/hr
Dozer (D-6 or >)	\$100.00	2	\$200.00
Small Tools	\$2.35	2	\$4.70
Foreman	\$48.00	1	\$48.00
Oiler	\$41.00	1	\$41.00
Operator (Heavy)	\$48.00	2	\$96.00
Laborer/Spotter	\$41.00	1	\$41.00
			\$430.70
Production Rate	300.00	cy/hr	\$1.44 /cy
		Markup	30%
		Total	\$1.87 /cy
		Rounded	\$1.90 /cy

Spreading at fill site (with Mechanical Excavation)

	\$/hr	qty	Total \$/hr
Dozer (D-6 or >)	\$100.00	2	\$200.00
Small Tools	\$2.35	2	\$4.70
Foreman	\$48.00	1	\$48.00
Oiler	\$41.00	1	\$41.00
Operator (Heavy)	\$48.00	2	\$96.00
Laborer/Spotter	\$41.00	1	\$41.00
			\$430.70
Production Rate	245.00	cy/hr	\$1.76 /cy
		Markup	30%
		Total	\$2.29 /cy
		Rounded	\$2.30 /cy